Sumaiya Akter

CONTACT

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GitHub: **https://github.com/SumaiyaHERE**

EDUCATION

University: Gachon University.

Major: Bachelor of Computer Engineering.
Expected graduation date: Dec 2025
GPA:3.89 /4.5

SKILLS

Programming languages: JavaScript, Python, Dart, Node, C++
Framework: TensorFlow, Keras, PyTorch.
Machine Learning & Deep Learning**:** Experience with regression, classification using CNN and clustering.
Computer Vision: Expertise in image classification ,object detection & image segmentation.
Natural Language Processing (NLP): Proficient in text analysis, tokenization, and sentiment analysis.
Databases: MySQL

WORK EXPERIENCE

CT Lab, Gachon University   **Seoul, South Korea**

Research student   *Mar 2024 -Present*

- Gain proficiency in a diverse set of machine learning algorithms, including linear regression, decision trees, support vector machines (SVMs), k-means clustering, and neural networks, with a strong emphasis on both theoretical understanding and practical implementation.
- Develop and implement machine learning models, including regression, classification, and clustering algorithms, utilizing tools such as Scikit-learn, TensorFlow and PyTorch.
- Preprocess raw datasets using Python libraries such as Pandas and NumPy, addressing missing values, feature scaling, and encoding categorical variables.
- Conduct research in computer vision, focusing on areas such as image recognition.

CERTIFICATION

Coursera - Natural Language Processing Specialization

LANGUAGES

- **Fluent: English, Bangla, Korean.**
- **Intermediate: Hindi.**
- **Elementary: Urdu.**

PUBLICATIONS

Journal: MDPI Applied Sciences
Title: "A Comprehensive Survey on Real-Time Image Super-Resolution for IoT and Delay-Sensitive Applications"
Link: https://www.mdpi.com/2076-3417/15/1/274#

REFERENCE

- **Taeg Keun Whangbo, Ph.D.(Supervisor) (tk-whangbo@gachon.ac.kr)**
  Department of Computer Engineering, Gachon University, South Korea.
- **Umirzakova Sabina, Ph.D**. **Assistant Professor, (sabinatuit@gachon.ac.kr)**
  Department of Computer Engineering, Gachon University, South Korea.